

In The Claims:

1. (Original) Seed of alfalfa plant designated J-101 and having representative seed deposited with American Type Culture Collection (ATCC) with Accession No. PTA-4814.
2. (Original) The alfalfa plant J-101 or parts thereof produced by growing the seed of claim 1.
3. (Original) The alfalfa plant J-101 or parts thereof of claim 2, comprising pollen, ovule, flowers, shoots, roots, or leaves.
4. (Currently amended) The alfalfa plant J-101 of claim 2 further comprising progeny thereof, wherein said progeny comprises SEQ ID NO:1 and SEQ ID NO:2.
5. (Currently amended) The alfalfa plant J-101 of claim 4, wherein the genome of said alfalfa plant J-101 comprises ~~a DNA molecule selected from the group consisting of SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, and SEQ ID NO:4.~~
6. (Original) The alfalfa plant J-101 or seed or parts thereof of claim 4, the genome of which produces an amplicon comprising SEQ ID NO:1 or SEQ ID NO:2 in a DNA amplification method.
- 7-9. (Canceled)
10. (Original) A method of producing a plant that tolerates application of glyphosate herbicide comprising:
 - (a) sexually crossing a first glyphosate tolerant alfalfa event J-101 and a second parent plant that lacks the tolerance to glyphosate herbicide, thereby producing a plurality of first progeny plants; and

- (b) selecting a first progeny plant that is tolerant to application of glyphosate; and
- (c) selfing said first progeny plant, thereby producing a plurality of second progeny plants; and
- (d) selecting from said second progeny plants a glyphosate tolerant plant.

11-12. (Canceled)

13. (Original) An alfalfa plant comprising a glyphosate tolerant trait that is genetically linked to a complement of a marker polynucleic acid, wherein said marker polynucleic acid molecule comprises SEQ ID NO:1 or SEQ ID NO:2.

14-26. (Canceled)

27. (Currently amended) An alfalfa plant or seed, the genome of which produces an amplicon comprising a DNA molecule selected from the group consisting of SEQ ID NO:1, and SEQ ID NO:2, 5, and 6 when tested in a DNA amplification method.

28-32. (Canceled)

33. (New) The alfalfa plant of claim 13, wherein said alfalfa plant comprises SEQ ID NO:3 and SEQ ID NO:4.
34. (New) An alfalfa plant comprising incorporated into the plant's genome a DNA insert encoding EPSPS, wherein the sequence overlapping the junction between the alfalfa genomic DNA and the 5'-end of the insert is comprised of SEQ ID NO:1, and the sequence overlapping the junction between the alfalfa genomic DNA and the 3'-end of the insert is comprised of SEQ ID NO:2.

35. (New) The alfalfa plant of claim 35, wherein said plant is progeny of an alfalfa plant J-101 having representative seed deposited with American Type Culture Collection (ATCC) with Accession No. PTA-4814.